
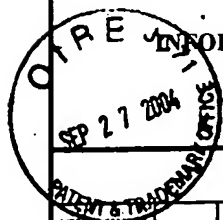


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|  <b>INFORMATION DISCLOSURE CITATION</b><br><i>(Use several sheets if necessary)</i>   |     |   |      | Docket Number (Optional)<br><b>128954-3</b> |       | Application Number<br><b>10/733,062</b> |                               |  |
|   |     |   |      | Applicant(s)<br><b>Guo, et al.</b>          |       |   |                               |  |
|   |     |   |      | Filing Date<br><b>December 11, 2003</b>     |       | Group Art Unit<br><b>1713</b>           |                               |  |
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| *EXAMINER<br>INITIAL  | REF | DOCUMENT NUMBER   | DATE | NAME  | CLASS | SUBCLASS                                | FILING DATE<br>IF APPROPRIATE |  |
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| <b>FOREIGN PATENT DOCUMENTS</b>   |     |   |      |   |       |   |                               |  |
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| <b>OTHER DOCUMENTS</b> <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>  |     |   |      |   |       |   |                               |  |
| SP  |     | International Search Report for PCT/US 03/39894 mailed December 8, 2004 |      |   |       |   |                               |  |
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| EXAMINER      /Sandra Poulos/   |     |   |      | DATE CONSIDERED      05/05/2006             |       |   |                               |  |
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**INFORMATION DISCLOSURE CITATION***(Use several sheets if necessary)*Docket Number (Optional)  
**128954-3**Application Number  
**10/733,062**Applicant(s)  
**Guo et al.**Filing Date  
**12/11/2003**

Group Art Unit

**U.S. PATENT DOCUMENTS**

| *EXAMINER<br>INITIAL | REF | DOCUMENT NUMBER    | DATE      | NAME         | CLASS | SUBCLASS | FILING DATE<br>IF APPROPRIATE |
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| SP                   |     | US 2004/0146692 A1 | 7/29/2004 | Inoue et al. |       |          |                               |
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**U.S. PATENT APPLICATION PUBLICATIONS**

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**FOREIGN PATENT DOCUMENTS**

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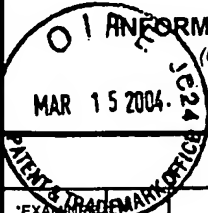
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|   |  |            |                | ATTY DOCKET NO.<br>128954-3       |          | SERIAL NO.<br>10/733,062      |    |
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|   |  |            |                | Guo et al.                        |          |                               |    |
|   |  |            |                | FILING<br>12/11/2003              |          | GROUP                         |    |
| <b>U.S. PATENT DOCUMENTS</b>  |  |            |                |                                   |          |                               |    |
| *EXAMINER<br>INITIAL  | DOCUMENT NUMBER  | DATE       | NAME           | CLASS                             | SUBCLASS | FILING DATE<br>IF APPROPRIATE |    |
| SP  | 6,593,391  | 7/15/2003  | Teutsch et al. |                                   |          |                               |    |
| ↓   | 2001/0053820 A1  | 12/20/2001 | Yeager et al.  |                                   |          |                               |    |
| ↓   | 2002/0120047   | 8/29/2002  | Border et al.  |                                   |          |                               |    |
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| ↓   | 2002/0169256 A1  | 11/14/2002 | Merfeld et al. |                                   |          |                               |    |
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| ↓   | 2002/0177027 A1  | 11/28/2002 | Yeager et al.  |                                   |          |                               |    |
| ↓   | 2003/0096123 A1  | 5/22/2003  | Yeager         |                                   |          |                               |    |
| ↓   | 2003/0215588 A1  | 11/20/2003 | Yeager et al.  |                                   |          |                               |    |
| ↓   | 3,375,228  | 3/26/1968  | Holoch et al.  |                                   |          |                               |    |
| ↓   | 4,148,843  | 4/10/1979  | Goossens       |                                   |          |                               |    |
| <b>FOREIGN PATENT DOCUMENTS</b>   |  |            |                |                                   |          |                               |    |
| SP  | DOCUMENT NUMBER  | DATE       | COUNTRY        | CLASS                             | SUBCLASS | TRANSLATION                   |    |
|   |  |            |                |                                   |          | YES                           | NO |
| SP  | DE 31 17 514 A1  | 2.5.81     | German         |                                   |          | ✓                             |    |
| ↓   | DE 41 03 140 A1  | 2.2.91     | German         |                                   |          | ✓                             |    |
| ↓   | EP 0 261 574   | 13.11.91   | European       |                                   |          |                               | ✓  |
| ↓   | WO 02/079301 A2  | 10.10.2002 | PCT            |                                   |          |                               | ✓  |
| ↓   | WO 93/04117  | 04.03.93   | PCT            |                                   |          |                               | ✓  |
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| SP  | Pugh et al. "Group Transfer Polymerization of Some Unusual Acrylates and Methacrylates", Polym. Prepr. (Am. Chem. Soc., Div. Polym. Chem.) (1985), 26 (2), 303-5 |            |                |                                   |          |                               |    |
| SP  | S. J. Monte et al., "A New Generation of Age and Water Resistant Reinforced Plastics", ANTEC, 1979, Section 16-E, pages 1-10                                     |            |                |                                   |          |                               |    |
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| <b>INFORMATION DISCLOSURE CITATION</b><br><i>(Use several sheets if necessary)</i>  |  |  |            | ATTY DOCKET NO.<br><b>128954-3</b>   |       | SERIAL NO.<br><b>10/733,062</b> |                               |    |
|   |  |  |            | Guo et al.                           |       |                                 |                               |    |
|   |  |  |            | FILING<br><b>12/11/2003</b>          |       | GROUP                           |                               |    |
| <b>U.S. PATENT DOCUMENTS</b>  |  |  |            |                                      |       |                                 |                               |    |
| *EXAMINER<br>INITIAL  |  | DOCUMENT NUMBER  | DATE       | NAME                                 | CLASS | SUBCLASS                        | FILING DATE<br>IF APPROPRIATE |    |
| SP  |  | 4,528,235  | 7/9/1985   | Sacks et al.                         |       |                                 |                               |    |
|   |  | 4,562,243  | 12/31/1985 | Percec                               |       |                                 |                               |    |
|   |  | 4,618,528  | 10/21/1986 | Sacks et al.                         |       |                                 |                               |    |
|   |  | 4,634,742  | 1/6/1987   | Percec                               |       |                                 |                               |    |
|   |  | 4,663,402  | 5/5/1987   | Percec et al.                        |       |                                 |                               |    |
|   |  | 4,665,137  | 5/12/1987  | Percec                               |       |                                 |                               |    |
|   |  | 4,677,185  | 6/30/1987  | Heitz et al.                         |       |                                 |                               |    |
|   |  | 4,701,514  | 10/20/1987 | Percec                               |       |                                 |                               |    |
|   |  | 4,739,007  | 4/19/1988  | Okada et al.                         |       |                                 |                               |    |
|   |  | 4,760,118  | 7/26/1988  | White et al.                         |       |                                 |                               |    |
| ✓   |  | 4,806,601  | 2/21/1989  | Percec                               |       |                                 |                               |    |
| <b>FOREIGN PATENT DOCUMENTS</b>   |  |  |            |                                      |       |                                 |                               |    |
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|   |  |  |            |                                      |       |                                 | YES                           | NO |
| SP  |  | WO 93/11190  | 10.06.93   | PCT                                  |       |                                 |                               | ✓  |
| SP  |  | WO 95/14733  | 01.06.95   | PCT                                  |       |                                 |                               | ✓  |
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| SP  |  | S. J. Monte et al., "Coupling Composites with Titanate During Extrusion Processing", <i>Modern Plastics</i> , May 1984, pages 74-78                      |            |                                      |       |                                 |                               |    |
| EXAMINER<br><b>/Sandra Poulos/</b>  |  |  |            | DATE CONSIDERED<br><b>05/05/2006</b> |       |                                 |                               |    |
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|  |  |  |  | Guo et al.                         |  |                                 |  |
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| *EXAMINER<br>INITIAL  |  | DOCUMENT NUMBER | DATE       | NAME            | CLASS | SUBCLASS | FILING DATE<br>IF APPROPRIATE |
| SP                    |  | 4,810,734       | 3/7/1989   | Kawasumi et al. |       |          |                               |
|                       |  | 4,874,728       | 10/17/1989 | Elliott et al.  |       |          |                               |
|                       |  | 4,889,885       | 12/26/1989 | Usuki et al.    |       |          |                               |
|                       |  | 4,923,932       | 5/8/1990   | Katayose et al. |       |          |                               |
|                       |  | 5,071,922       | 12/10/1991 | Nelissen et al. |       |          |                               |
|                       |  | 5,079,268       | 1/7/1992   | Nelissen et al. |       |          |                               |
|                       |  | 5,091,480       | 2/25/1992  | Percec          |       |          |                               |
|                       |  | 5,171,761       | 12/15/1992 | Penco et al.    |       |          |                               |
|                       |  | 5,218,030       | 6/8/1993   | Katayose et al. |       |          |                               |
|                       |  | 5,219,951       | 6/15/1993  | Nelissen et al. |       |          |                               |
| V                     |  | 5,304,600       | 4/19/1994  | Nelissen et al. |       |          |                               |

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| SP  |  | "Plastic Additives Handbook, 4th Edition" R. Gachter and H. Muller (eds.), P. P. Klemchuck (assoc. ed) Hansen Publishers, New York 1993, pages 914-935 |
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| *EXAMINER<br>INITIAL   |  | DOCUMENT NUMBER  | DATE       | NAME                          | CLASS | SUBCLASS                 | FILING DATE<br>IF APPROPRIATE |
| SP   |  | 5,310,820  | 5/10/1994  | Nelissen et al.               |       |                          |                               |
|  |  | 5,338,796  | 8/16/1994  | Vianello et al.               |       |                          |                               |
|  |  | 5,385,776  | 1/31/1995  | Maxfield                      |       |                          |                               |
|  |  | 5,407,972  | 4/18/1995  | Smith et al.                  |       |                          |                               |
|  |  | 5,552,469  | 9/3/1996   | Beall et al.                  |       |                          |                               |
|  |  | 5,578,672  | 11/26/1996 | Beall et al.                  |       |                          |                               |
|  |  | 5,698,624  | 12/16/1997 | Beall et al.                  |       |                          |                               |
|  |  | 5,760,121  | 6/2/1998   | Beall et al.                  |       |                          |                               |
|  |  | 5,834,565  | 11/10/1998 | Tracy et al.                  |       |                          |                               |
|  |  | 5,877,248  | 3/2/1999   | Beall et al.                  |       |                          |                               |
|  |  | 5,965,663  | 10/12/1999 | Hayase                        |       |                          |                               |
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| SP   |  | Chem. Mater. 1994, 6, 468-474, Wang et al., "Clay-Polymer Nanocomposites Formed from Acidic Derivatives of Montmorillonite and an Epoxy Resin" |            |                               |       |                          |                               |
| SP   |  | Chem. Mater. 1994, 6, 1719-1725, Messersmith et al., "Synthesis and Characterization of Layered Silicate-Epoxy Nanocomposites"                 |            |                               |       |                          |                               |
| EXAMINER<br>/Sandra Poulos/  |  |  |            | DATE CONSIDERED<br>05/05/2006 |       |                          |                               |
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| <b>INFORMATION DISCLOSURE CITATION</b><br><i>(Use several sheets if necessary)</i>   |  |  |            | ATTY DOCKET NO.<br>128954-3   |       | SERIAL NO.<br>10/733,062 |                               |
|  |  |  |            | Guo et al.                    |       |                          |                               |
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|  |  | 6,228,903  | 5/8/2001   | Beall et al.                  |       |                          |                               |
|  |  | 6,251,308  | 6/26/2001  | Butler                        |       |                          |                               |
|  |  | 6,287,992  | 9/11/2001  | Polansky et al.               |       |                          |                               |
|  |  | 6,306,963  | 10/23/2001 | Lane et al.                   |       |                          |                               |
|  |  | 6,352,782  | 3/5/2002   | Yeager et al.                 |       |                          |                               |
|  |  | 6,384,176  | 5/7/2002   | Braat et al.                  |       |                          |                               |
|  |  | 6,469,124  | 10/22/2002 | Braat et al.                  |       |                          |                               |
|  |  | H 521  | 9/6/1988   | Fan                           |       |                          |                               |
| ↓  |  | 6,521,703  | 2/18/2003  | Zarnoch et al.                |       |                          |                               |
|  |  | 6,617,398 B2   | 9/9/2003   | Yeager et al.                 |       |                          |                               |
| FOREIGN PATENT DOCUMENTS   |  |  |            |                               |       |                          |                               |
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| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)   |  |  |            |                               |       |                          |                               |
| SP   |  | Chem. Mater. 1995, 7, 2144-2150, Lan et al., "Mechanism of Clay Tactoid Exfoliation in Epoxy-Clay Nanocomposites"                        |            |                               |       |                          |                               |
| SP   |  | Reichle et al., "Catalytic Reactions by Thermally Activated, Synthetic, Anionic Clay Materials", Journal of Catalysis 94, 547-557 (1985) |            |                               |       |                          |                               |
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|---|-----|---------------------|-------------------|--|-------|---|------------------------------|----|
|   |     |                     |                   | Applicant(s)<br><b>Guo et al.</b>  |       |   |                              |    |
|   |     |                     |                   | Filing Date<br><b>12/11/2003</b>   |       | Group Art Unit                          |                              |    |
| <b>U.S. PATENT DOCUMENTS</b>  |     |                     |                   |  |       |   |                              |    |
| *EXAMINER<br>INITIAL  | REF | DOCUMENT NUMBER     | DATE              | NAME   | CLASS | SUBCLASS                                | FILED DATE<br>IF APPROPRIATE |    |
|    |     | <b>6,627,704 B2</b> | <b>9/30/2003</b>  | <b>Yeager et al.</b>   |       |   |                              |    |
|   |     | <b>6,627,708</b>    | <b>9/30/2003</b>  | <b>Braat et al.</b>  |       |   |                              |    |
|   |     | <b>6,645,569</b>    | <b>11/11/2003</b> | <b>Cramer et al.</b>   |       |   |                              |    |
|   |     | <b>6,646,302</b>    | <b>11/11/2003</b> | <b>Kan et al.</b>  |       |   |                              |    |
|   |     | <b>6,652,967</b>    | <b>11/25/2003</b> | <b>Yadav et al.</b>  |       |   |                              |    |
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| <b>FOREIGN PATENT DOCUMENTS</b>   |     |                     |                   |  |       |   |                              |    |
|   | REF | DOCUMENT NUMBER     | DATE              | COUNTRY  | CLASS | SUBCLASS                                | Translation                  |    |
|   |     |                     |                   |  |       |   | YES                          | NO |
|   |     |                     |                   |  |       |   |                              |    |
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| <b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>   |     |                     |                   |  |       |   |                              |    |
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| EXAMINER<br><div style="text-align: right; margin-right: 50px;"><b>/Sandra Poulos/</b></div>  |     |                     |                   | DATE CONSIDERED<br><div style="text-align: right;"><b>05/05/2006</b></div> |       |   |                              |    |
| EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. |     |                     |                   |  |       |   |                              |    |